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***NEW AMERICAN MICROSCOPES, MADE BY BAUSCH &  
LOMB OPTICAL CO., ROCHESTER, N. Y.***

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HENRY BAUSCH.

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To meet the demands from a large number of our American institutions of learning for an instrument similar in construction to the Biological, which was introduced to this Society at its Buffalo meeting, August, 1889, for a less expensive and more complete form, we have made the two microscopes which I exhibit before you. The small one, to be known as "Small Continental" (Fig. 1), is as follows :

The base of this stand has the horseshoe form and is of japanned iron ; pillars upright and of brass ; the stage is square and has spring-clips, which are readily removable ; to the under side of the stage a revolving diaphragm is attached, having four different size apertures. The mirror-bar is secured to the arm and can be swung to any obliquity below the stage ; it carries the mirror fork and mirror, which latter is  $1\frac{1}{2}$  inch diameter, and plane and concave. Coarse adjustment is by sliding tube, and fine adjustment by micrometer screw acting on triangular bearing of the arm. The main tube is provided with draw-tube, which will allow extension of tubes to the long standard.

The instrument is made in two forms : With solid pillar and arm and with joint for inclination.

In the construction of the other instrument, known as the "Large Continental" (Fig. 2), no efforts have been spared to make the stand the most complete and fitted with all modern improvements and appliances. It is made entirely of brass. The base is of large dimensions, and heavy, to secure extreme steadiness under manipulation in an inclined, upright, or horizontal position. The pillar has largeset-screws for tightening joint for inclination ; to it is fitted the arm carrying the body of the instrument ; coarse adjustment is by rack and pinion ; fine adjustment by micrometer screw working on the triangular bearing of the arm ; the head of the micrometer

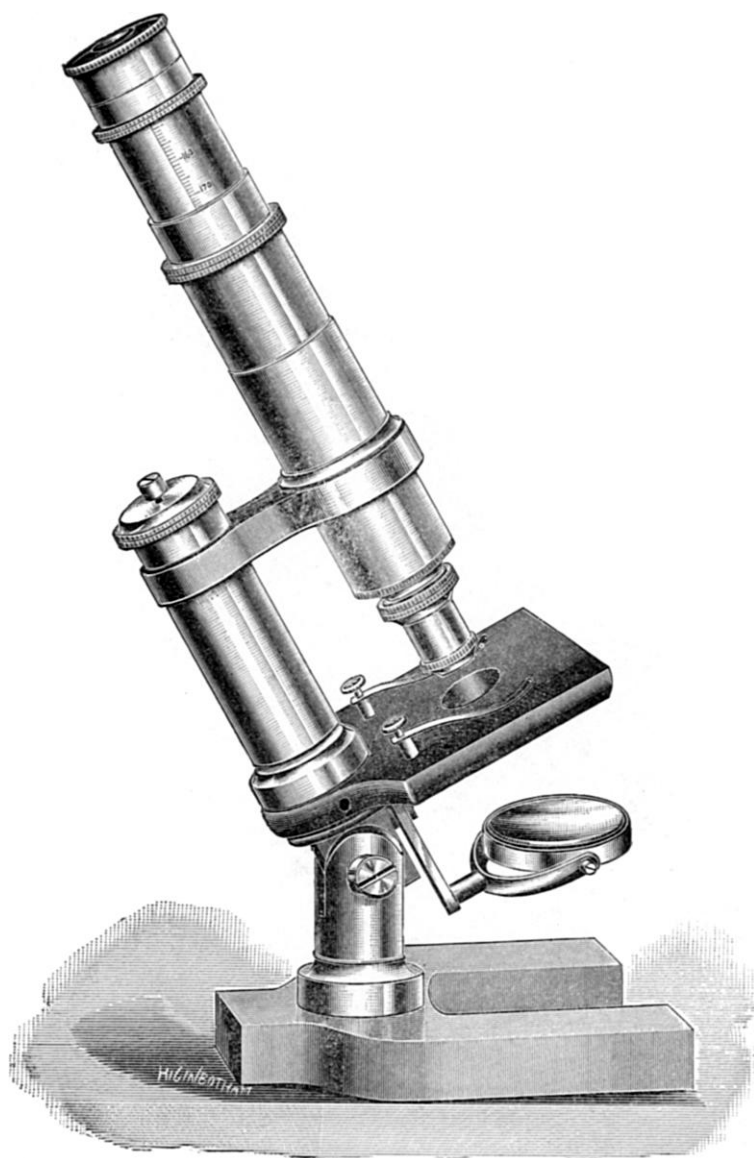


FIG. 1.

screw is graduated to 100 parts in tenth divisions; an index point is provided. The main tube has society-screw and a draw-tube fitted, which is graduated from 160 millimeters to 216 millimeters, thus allowing the ready adjustment for different objectives corrected for different tube lengths. The stage is large and round, has a rotary movement, and is provided with centering adjustment and spring-clips; it is attached to a heavy stage-plate in a manner to secure firmness; the sub-stage attachment moves by rack and pinion on the mirror-bar and consists of a sub-stage ring carrying wide-angle Abbe condenser, and a mounting with iris diaphragm, which latter is provided with rack and pinion. The mounting swings on its axis, leaving the condenser stationary. The condenser can easily be removed from its mounting, thus allowing the use of the microscope without the use of the sub-stage accessories. The mirror which moves with the sub-stage attachment is of large size, both plane and concave. This instrument will be made with revolving stage or mechanical stage, as desired.



FIG. 2.